

WHAT IS CLAIMED IS:

1. A reproducing apparatus comprising:

reproducing means for reproducing image data from  
a recording medium at a speed higher than a normal  
5 reproduction speed;

storage means for storing a plurality of pictures  
of image data reproduced by said reproducing means; and

forming means for dividing each of a plurality of  
pictures of image data stored in said storage means  
10 into a plurality of regions and for forming one picture  
of high-speed-reproduction image data by using the  
different divided regions of the plurality of pictures  
of image data.

15 2. An apparatus according to claim 1, wherein  
said forming means divides each of a plurality of  
successive pictures of image data stored in said  
storage means into a plurality of regions, and forms  
one picture of high-speed-reproduction image data by  
20 using one of divided regions of each of the plurality  
of pictures of image data, said one divided region of  
each picture differing in position from each other.

3. An apparatus according to claim 1, wherein  
25 said forming means divides each of n pictures (n: an  
integer equal to or greater than 2) of image data  
stored in said storage means into a plurality of

regions, and forms one frame of high-speed-reproduction  
image data by using one of  $n$  divided regions of each of  
the plurality of pictures of image data, said one  
divided region of each picture differing in position  
5 from each other.

4. An apparatus according to claim 3, wherein  
said forming means forms one picture of the high-speed-  
reproduction image data for every  $n$ th picture of image  
10 data reproduced by said reproducing means.

5. An apparatus according to claim 3, wherein the  
number  $n$  is determined according to the speed at which  
the image data is reproduced by said reproducing means.  
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6. An apparatus according to claim 1, wherein the  
image data is encoded by interpicture coding and by  
intrapicture coding.

7. An apparatus according to claim 6, wherein  
said reproducing means has decoding means for decoding  
the reproduced image data, and said storage means  
stores image data decoded by said decoding means.  
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8. An apparatus according to claim 1, wherein the  
recording medium comprises a disc-like recording  
medium.  
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9. A reproducing apparatus comprising:

reproducing means for reproducing image data from  
a recording medium;

storage means for storing a plurality of pictures  
5 of image data reproduced by said reproducing means;

forming means for forming normal-reproduction  
image data and search-reproduction image data by using  
the plurality of pictures of image data stored in said  
storage means, said forming means forming one picture  
10 of the normal-reproduction image data by using only one  
picture of image data in the plurality of pictures of  
image data stored in said storage means, said forming  
means dividing each of a plurality of pictures of image  
data stored in said storage means into a plurality of  
15 regions and forming one picture of the search-  
reproduction image data by using the different divided  
regions of the plurality of pictures of image data; and

mode change means for changing the reproduction  
mode between a normal reproduction mode in which said  
20 reproducing means reproduces the image data at a normal  
reproduction speed and said forming means forms the  
normal-reproduction image data, and a search  
reproduction mode in which said reproducing means  
reproduces the image data at a speed higher than the  
25 normal reproduction speed and said forming means forms  
the search-reproduction image data.

10. An apparatus according to claim 9, wherein said forming means divides each of a plurality of successive pictures of image data stored in said storage means into a plurality of regions, and forms  
5 one picture of search-reproduction image data by using one of divided regions of each of the plurality of pictures of image data, said one divided region of each picture differing in position from each other.

10 11. An apparatus according to claim 9, wherein said forming means divides each of n pictures (n: an integer equal to or greater than 2) of image data stored in said storage means into a plurality of regions, and forms one frame of search-reproduction  
15 image data by using one of n divided regions of each of the plurality of pictures of image data, said one divided region differing of each picture in position from each other.

20 12. An apparatus according to claim 11, wherein said forming means forms one picture of the search-reproduction image data for every nth picture of image data reproduced at a speed higher than the normal-reproduction speed.

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13. An apparatus according to claim 11, wherein the number n is determined according to the speed at

which the image data is reproduced in the search reproduction mode.

14. An apparatus according to claim 9, wherein  
5 the image data is encoded by interpicture coding and by intrapicture coding.

15. An apparatus according to claim 14, wherein  
10 said reproducing means has decoding means for decoding the reproduced image data, and said storage means stores image data decoded by said decoding means.

16. An apparatus according to claim 9, wherein  
15 the recording medium comprises a disc-like recording medium.

17. A reproducing apparatus comprising:  
reproducing means for reproducing image data from  
a recording medium;  
20 storage means for storing a plurality of pictures of image data in the image data reproduced by said reproducing means;

mode change means for changing the reproduction mode between a first reproduction mode and a second  
25 reproduction mode according to motion of an image relating to the image data reproduced by said reproducing means; and

forming means for forming first image data and second image data by using the plurality or pictures of image data stored in said storage means, said forming means dividing each of a plurality of pictures of image data stored in said storage means into a plurality of regions, said forming means forming one picture of the first image data by using the different divided regions of the plurality of pictures of image data, said forming means forming one picture of the second image data by using only one picture of image data of the plurality of pictures of image data stored in said storage means, said forming means forming the first image data in the first reproduction mode and forming the second image data in the second reproduction mode.

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18. An apparatus according to claim 17, wherein the image data reproduced by said reproducing means is encoded by interpicture coding and by intrapicture coding, and said reproducing means has decoding means for decoding the image data reproduced from the recording medium.

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19. An apparatus according to claim 18, wherein said storage means stores the image data decoded by said decoding means, and said forming means forms, in the second mode, one picture of the first image data by using only decoded image data of the image data encoded

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by intrapicture coding.

20. An apparatus according to claim 17, wherein  
said reproducing means also reproduces motion  
5 information indicating a movement of an image relating  
to the image data recorded on the recording medium, and  
said mode change means changes the reproduction mode  
according to the motion information reproduced by said  
reproducing means.

10 21. A reproducing apparatus comprising:  
reproducing means for reproducing image data from  
a disc-like recording medium; and

forming means for forming one picture of search-  
15 reproduction image data by using a portion of each of a  
plurality of successive pictures of image data  
reproduced by said reproducing means in a search  
reproduction mode in which said reproducing means  
reproduces the image data at a speed higher than a  
20 normal reproduction speed.

22. An apparatus according to claim 21, wherein  
the image data recorded on the disc-like recording  
medium is encoded by interpicture coding and by  
25 intrapicture coding, and said forming means forms, in  
the search reproduction mode, one picture of the  
search-reproduction image data by using portions of the

plurality of successive pictures of image data  
including image data decoded from the intrapicture-  
coded image data and image data decoded from the  
interpicture-coded image data in the image data  
5 reproduced by said reproducing means.

23. A method for reproducing image data from a  
recording medium, said method comprising the steps of:

10 storing in a memory a plurality of pictures of  
image data reproduced from the recording medium at a  
speed higher than a normal reproduction speed; and  
dividing each of the plurality of pictures of  
image data stored in the memory into a plurality of  
regions, and forming one picture of image data by using  
15 the different divided regions of the plurality of  
pictures of image data.

24. A reproduction method comprising the steps  
of:

20 reproducing image data from a disc-like recording  
medium; and

forming one picture of search-reproduction image  
data by using a portion of each of a plurality of  
successive pictures of image data reproduced in said  
25 reproducing step in a search reproduction mode in which  
the image data is reproduced at a speed higher than a  
normal reproduction speed in said reproducing step.